

FIG. 1 (PRIOR ART)

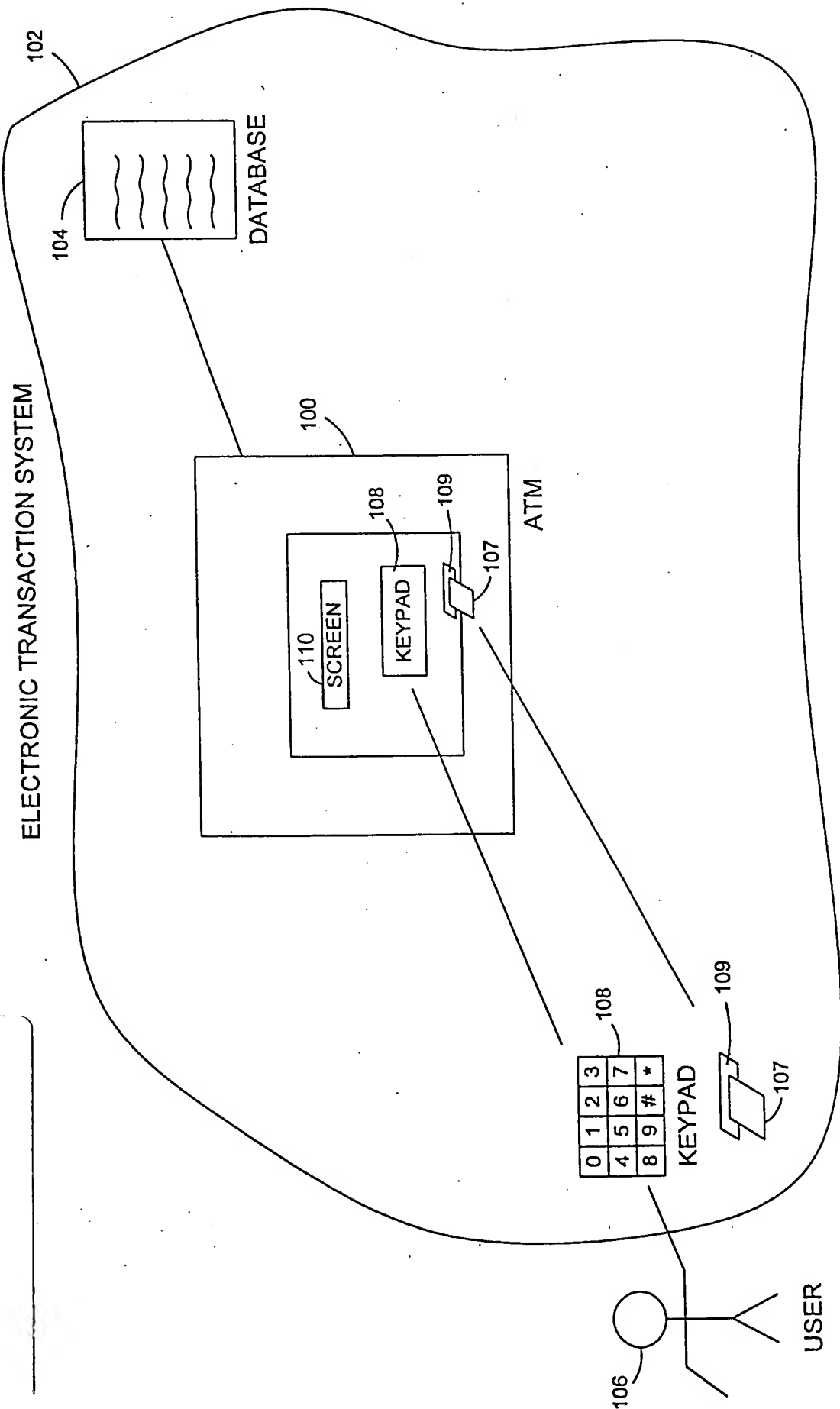


FIG. 1 (PRIOR ART)

FIG. 2

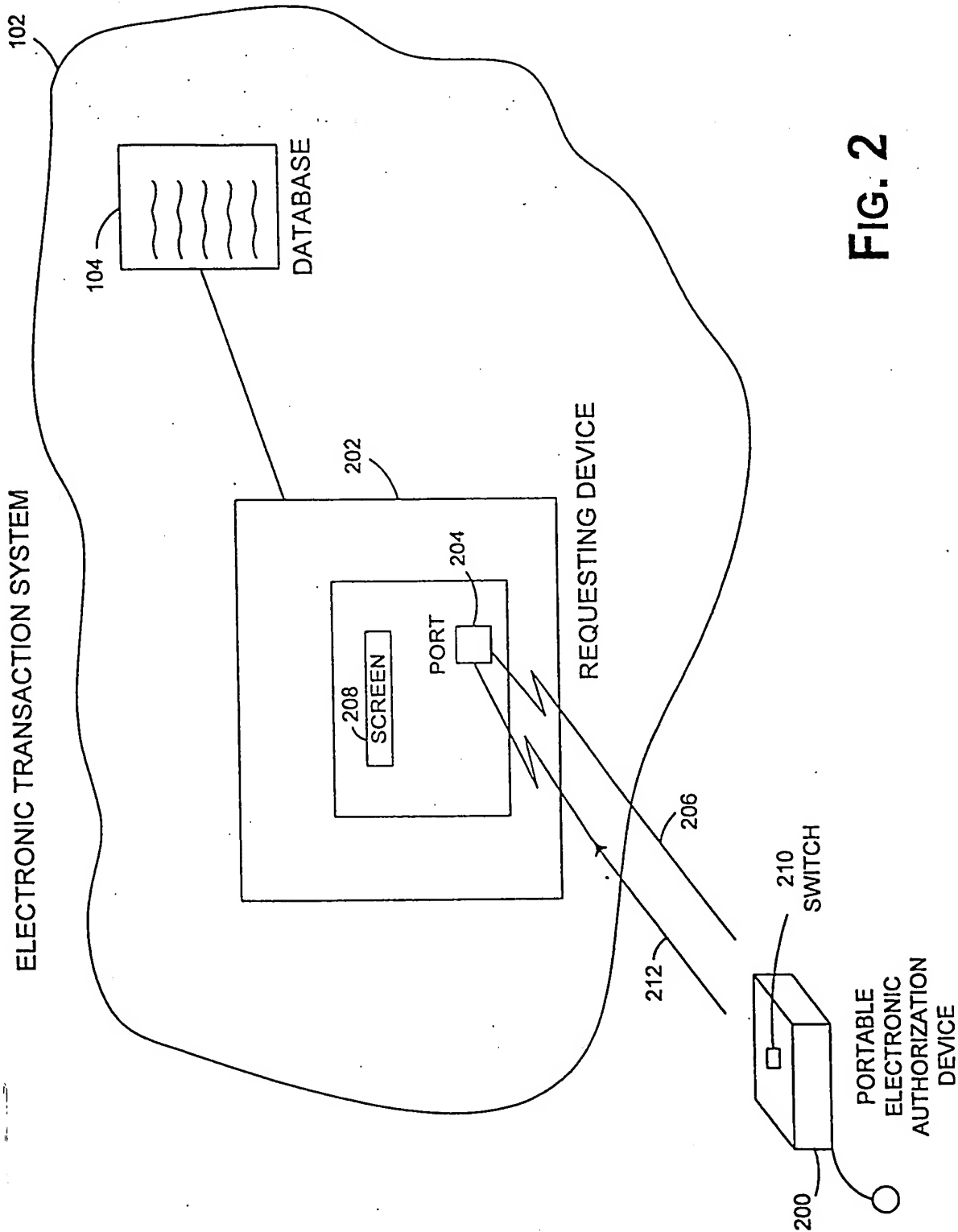


FIG. 2

FIG. 3A

PORTABLE ELECTRONIC AUTHORIZATION DEVICE

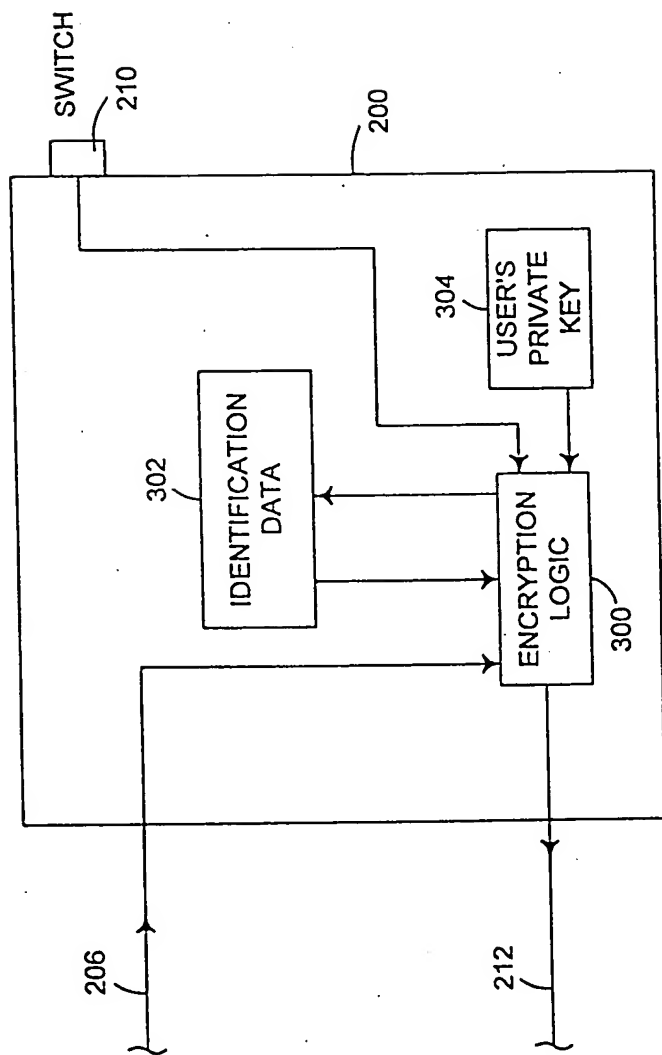


FIG. 3A

350

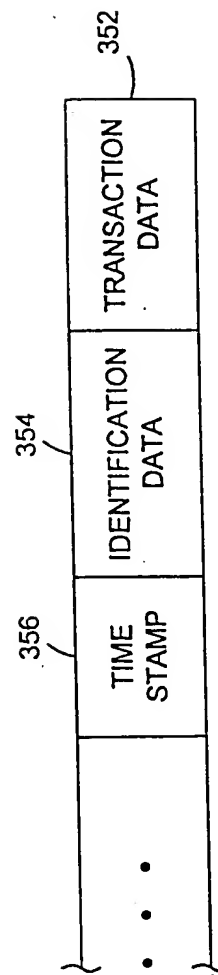


FIG. 3B

FIG. 4

PORTABLE ELECTRONIC AUTHORIZATION DEVICE

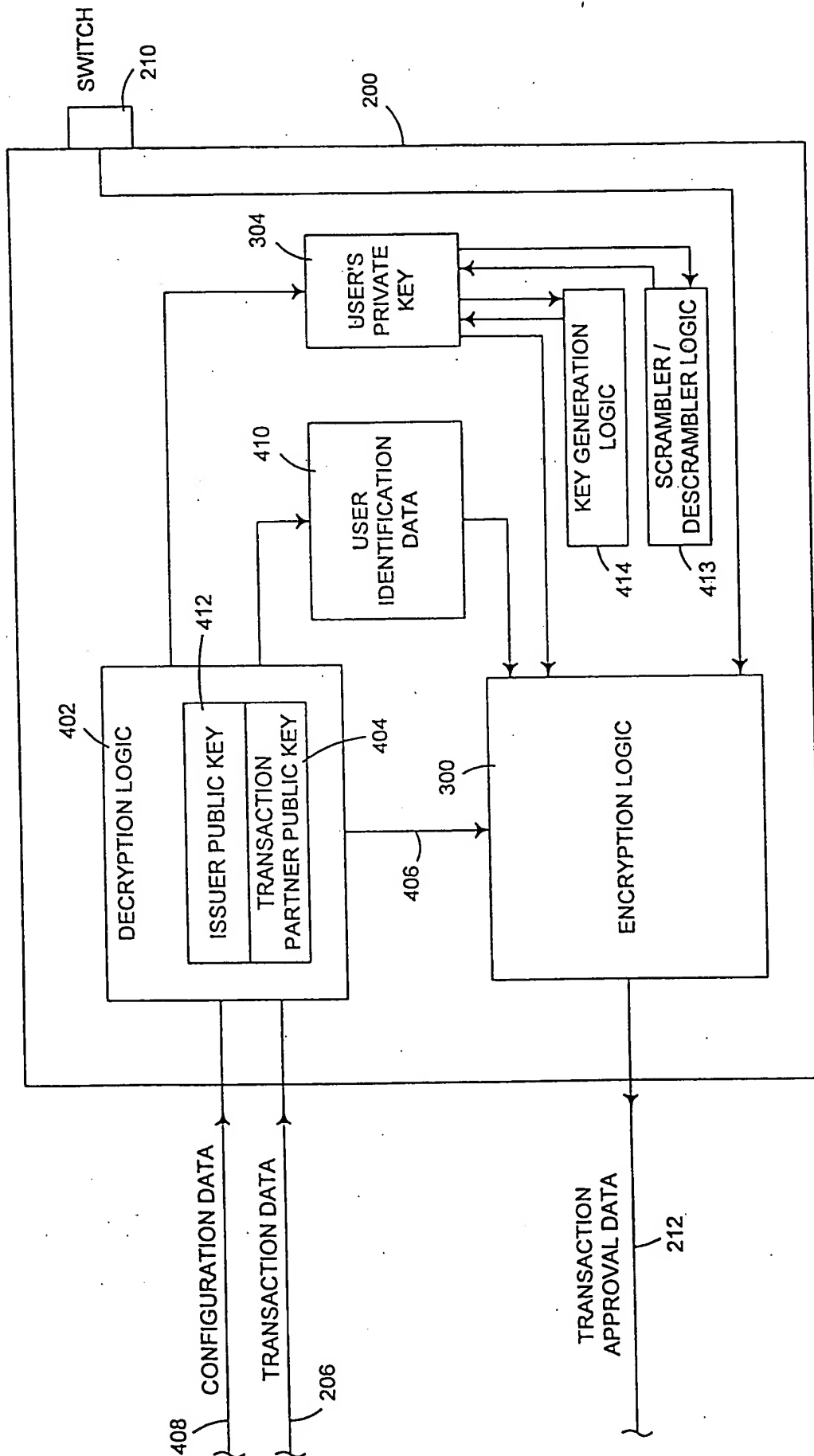


FIG. 4

FIG. 5A

PORTABLE ELECTRONIC AUTHORIZATION DEVICE

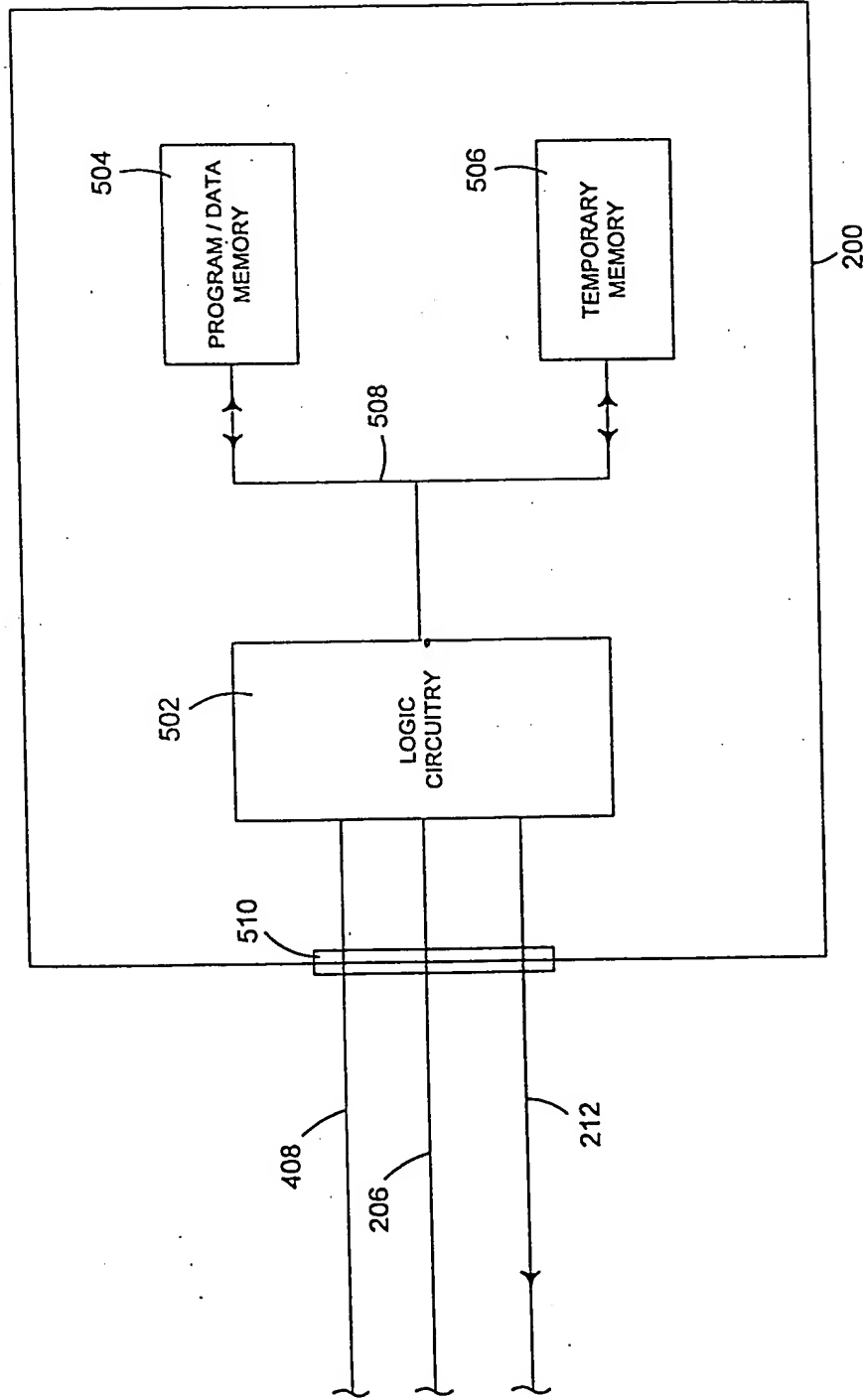


FIG. 5A

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PORTABLE ELECTRONIC AUTORIZATION DEVICE

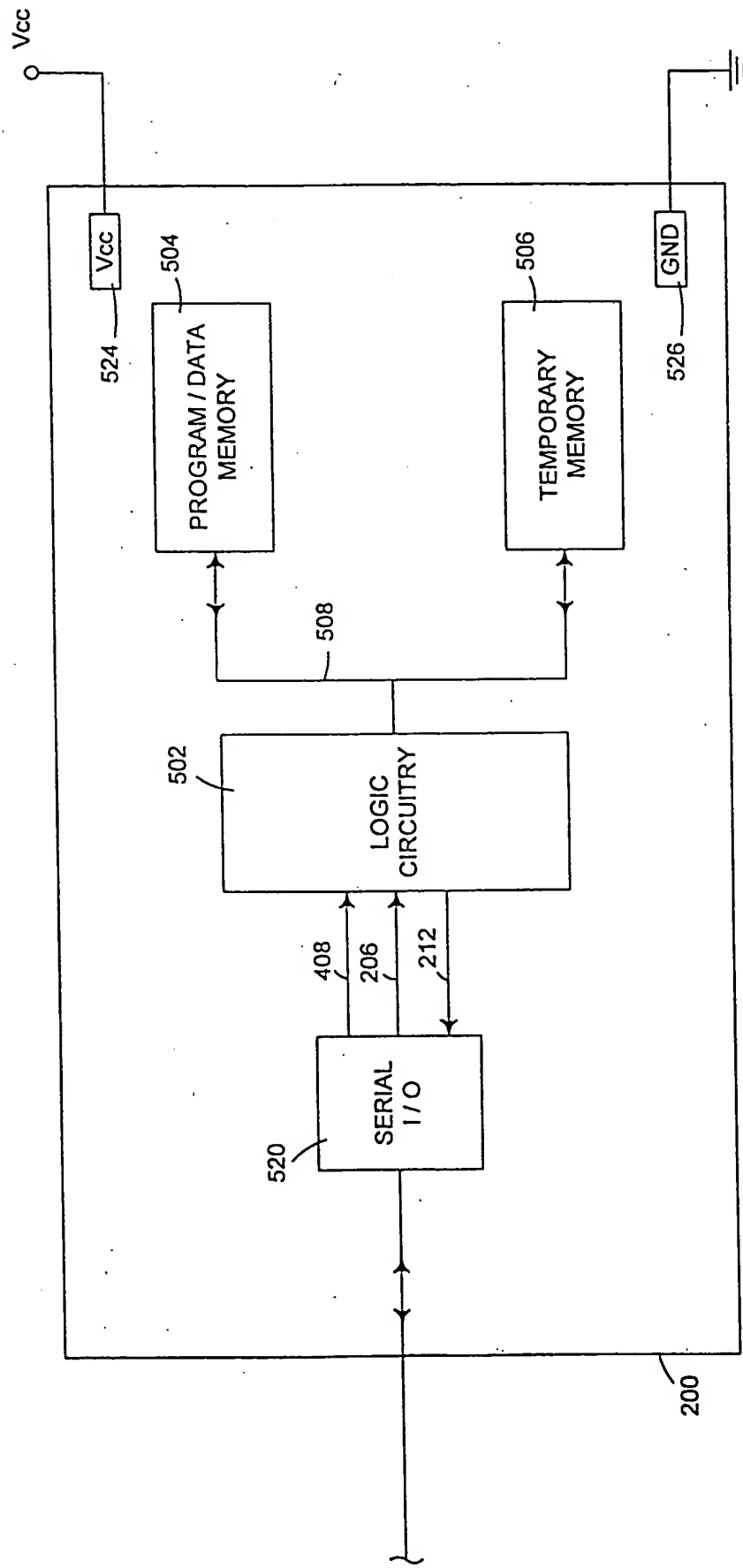


FIG. 5B

FIG. 5C

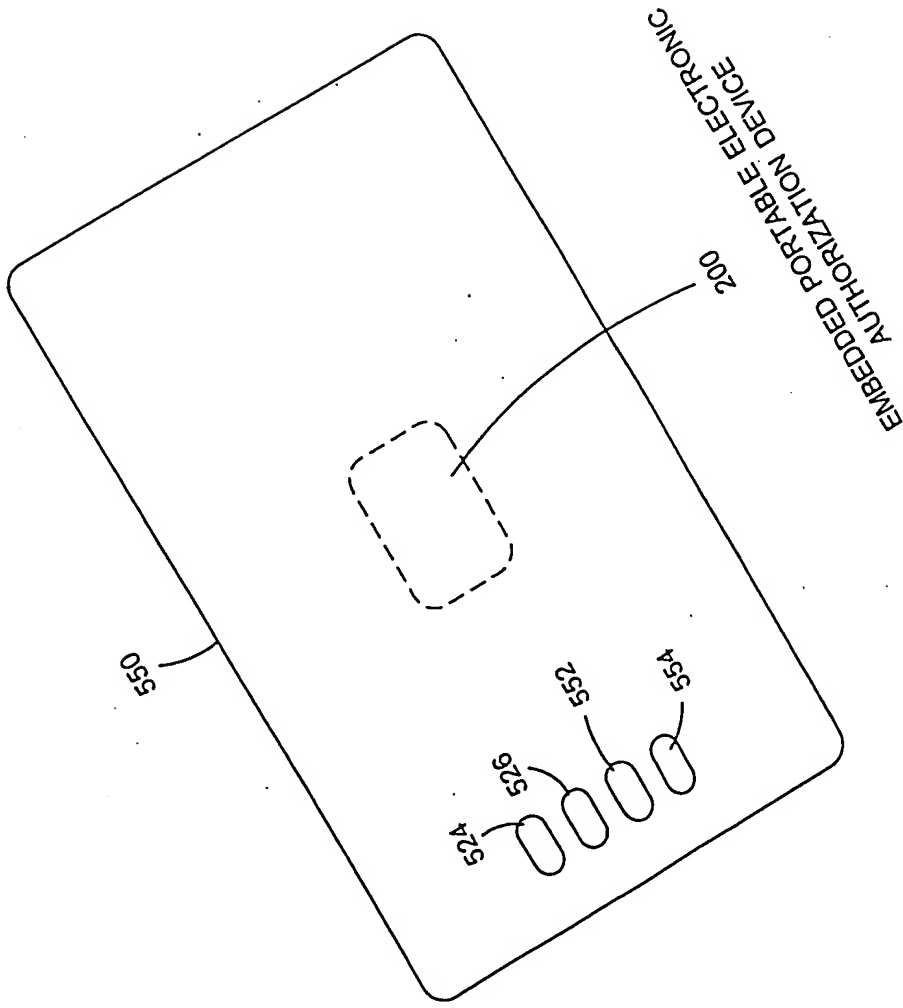


FIG. 5C

10026843 122101

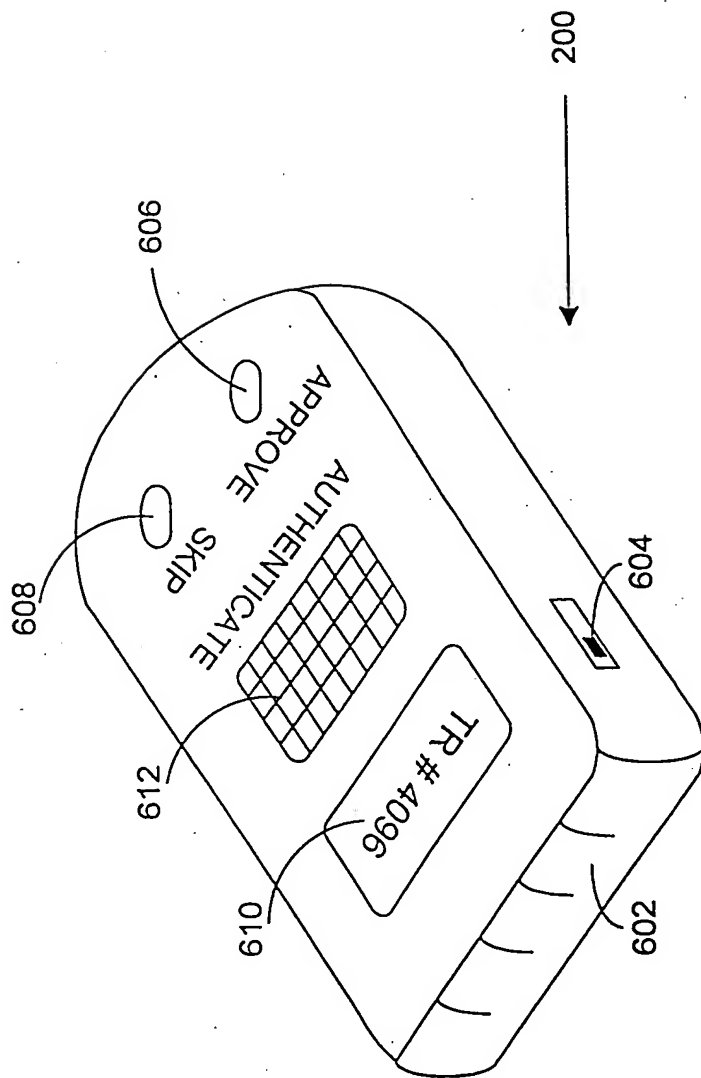


FIG. 6A

FIG. 6B

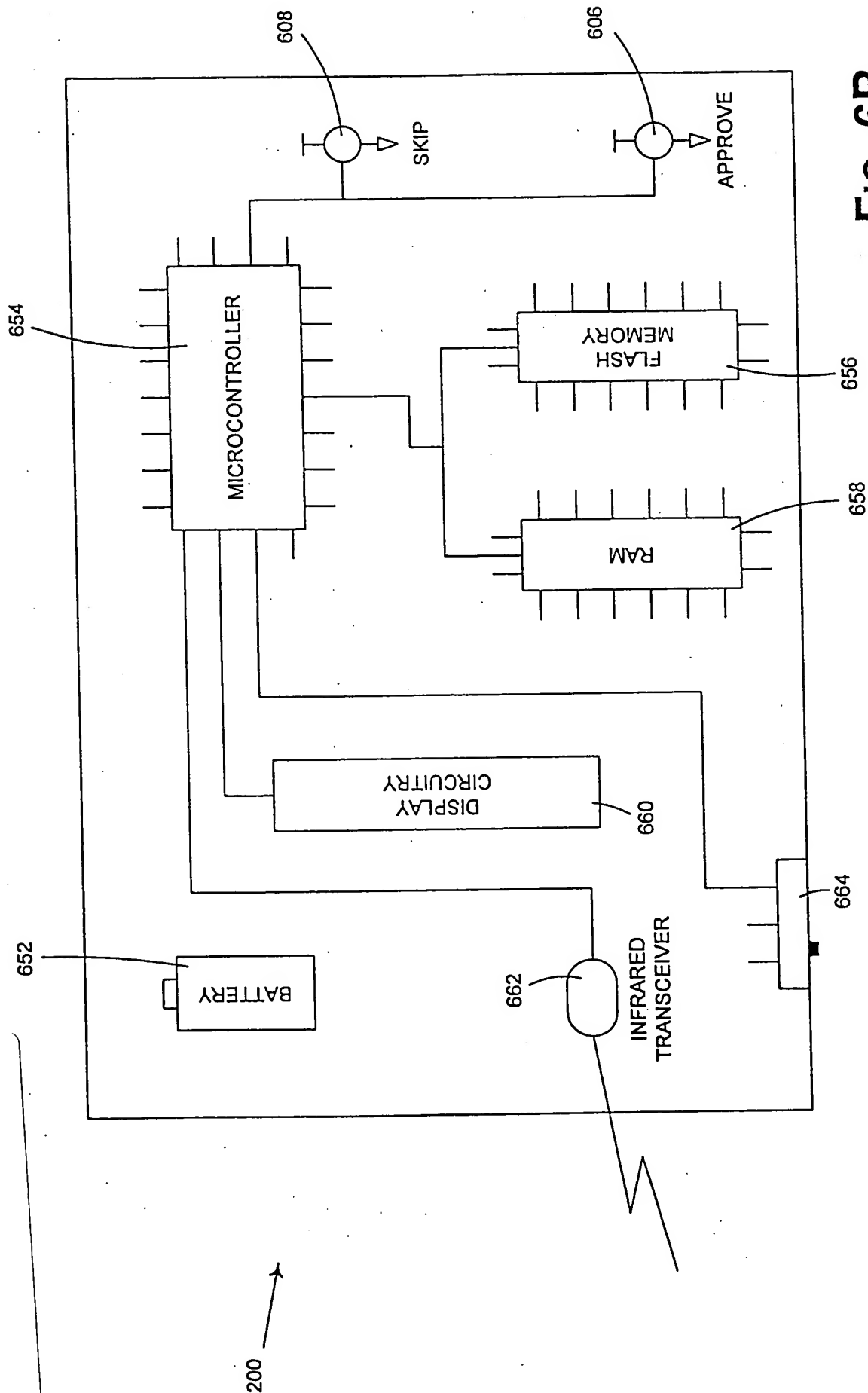


FIG. 6B

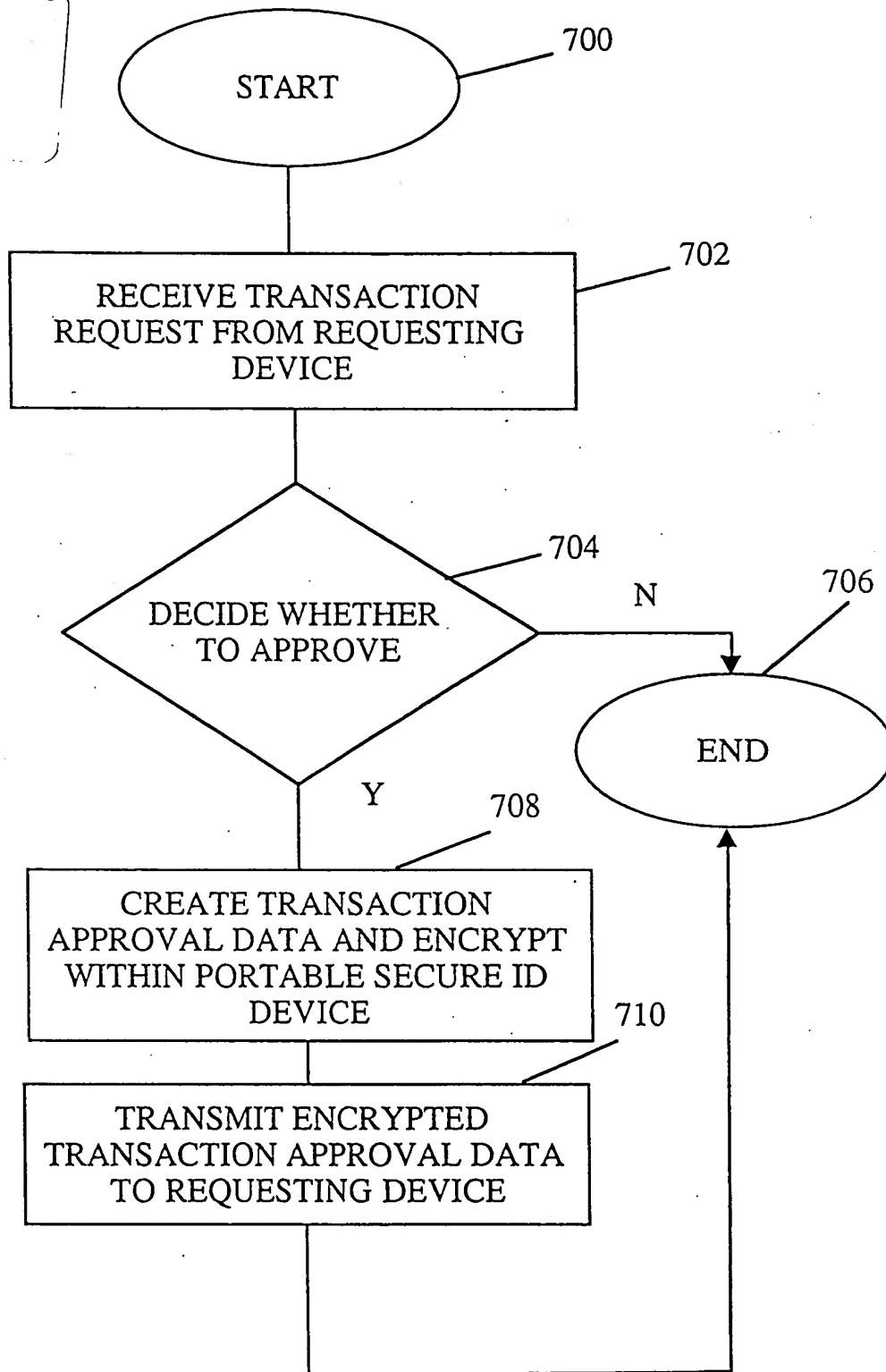


FIG. 7

10026848 122101

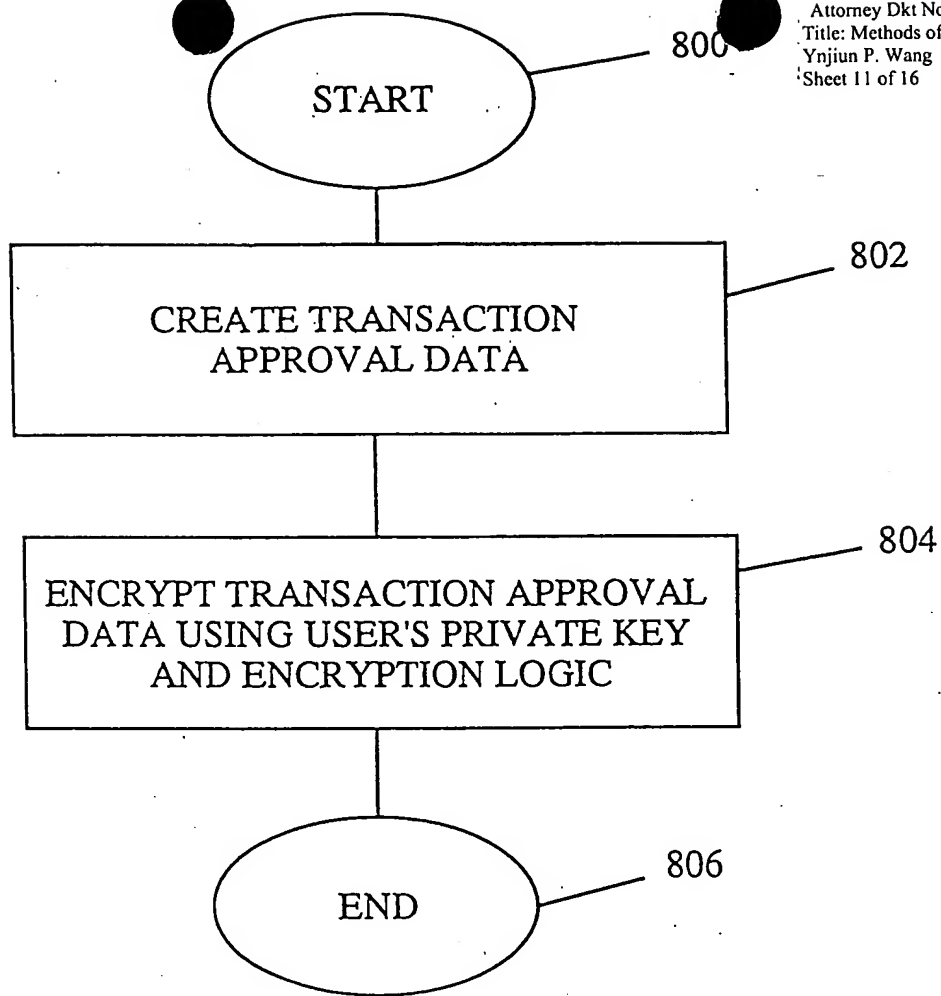


FIG. 8

10026348-122101

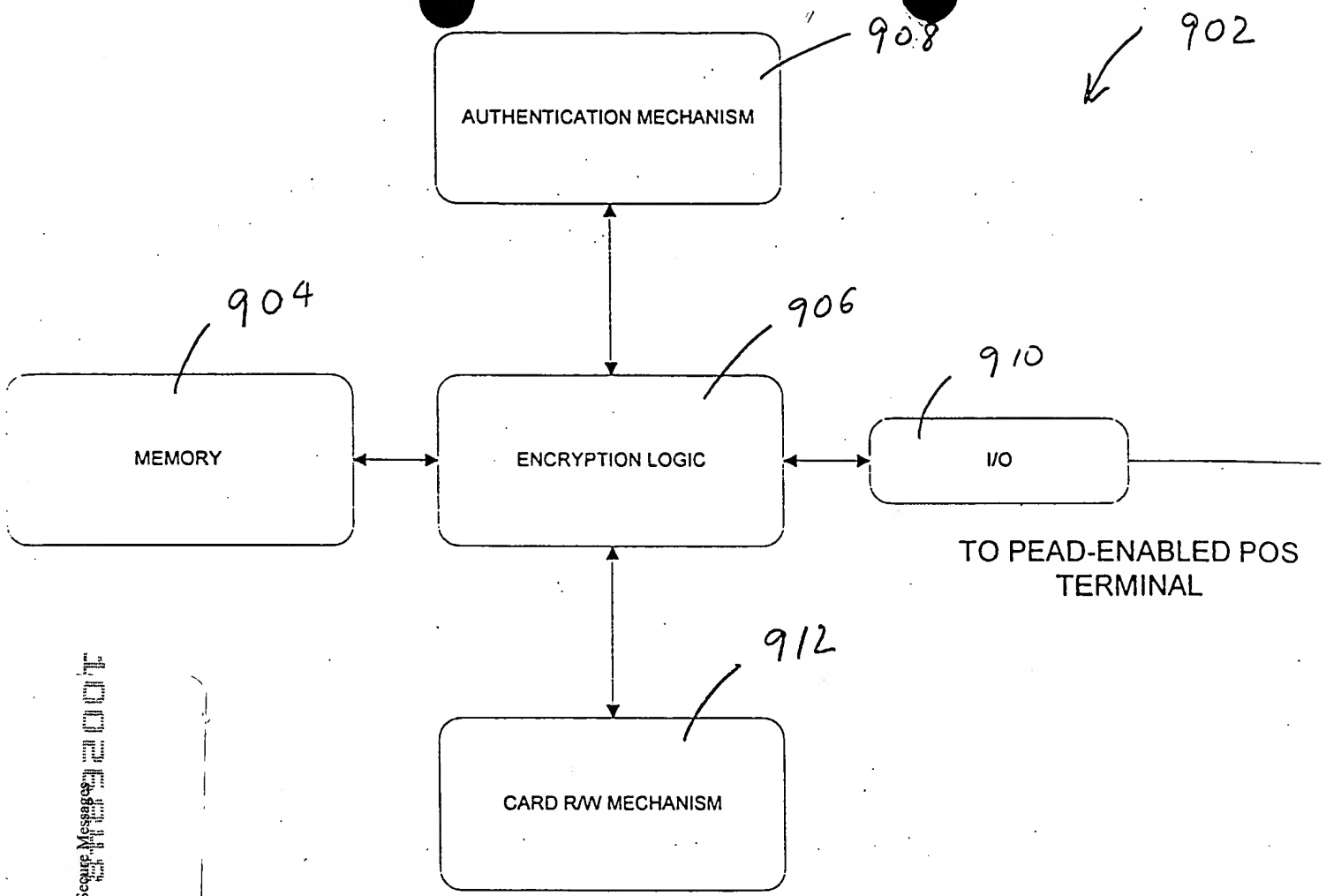
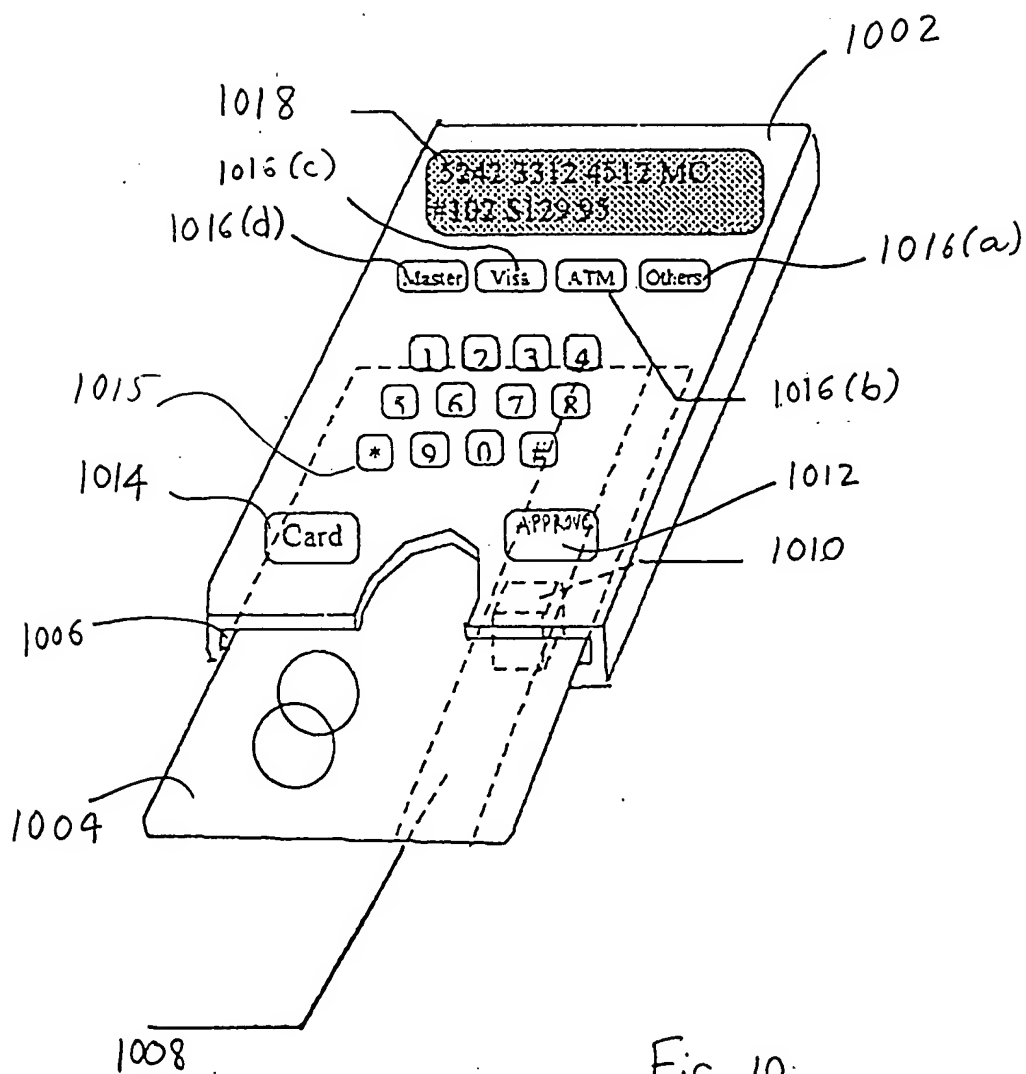


FIG. 9



10026848 122101

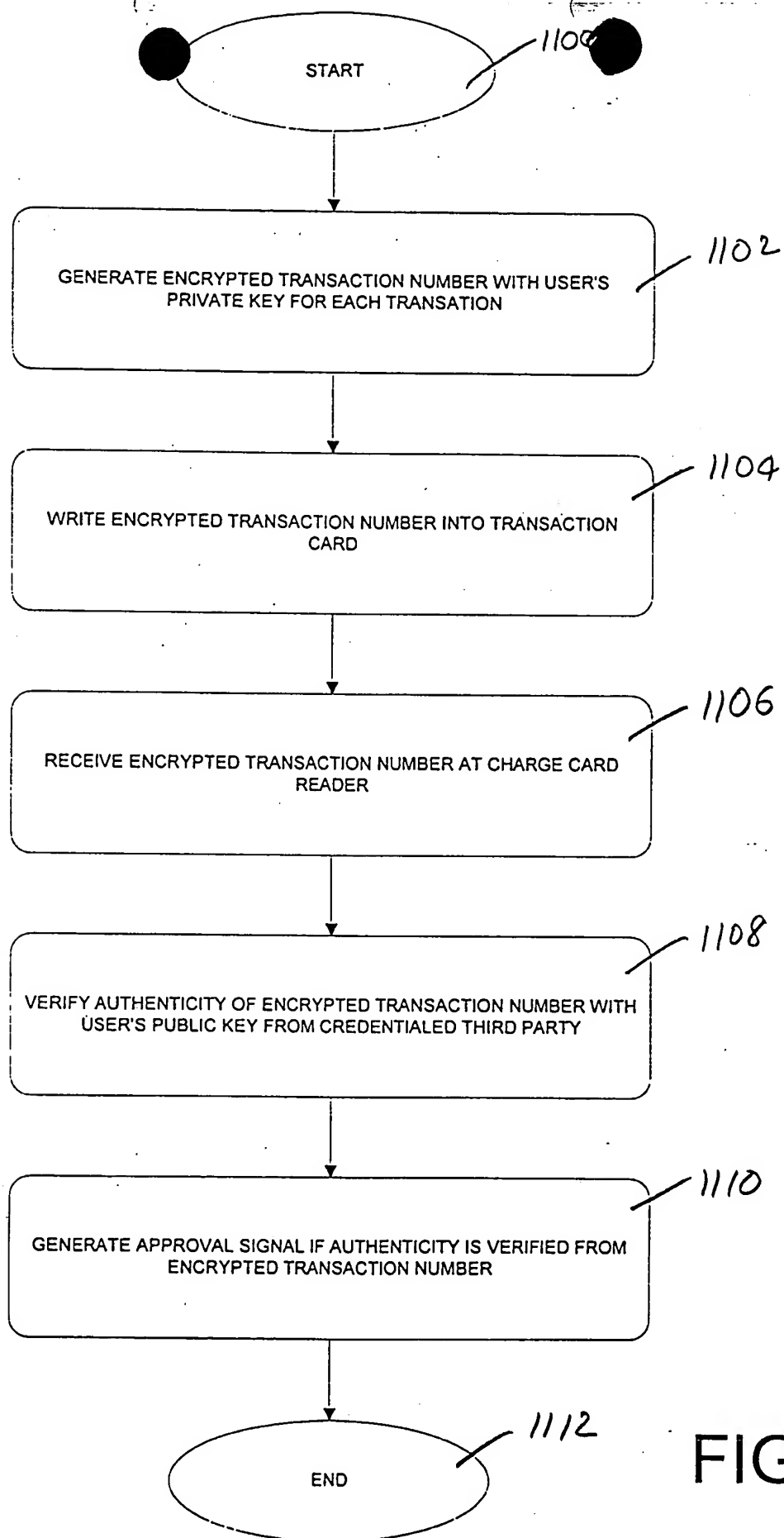


FIG. 11

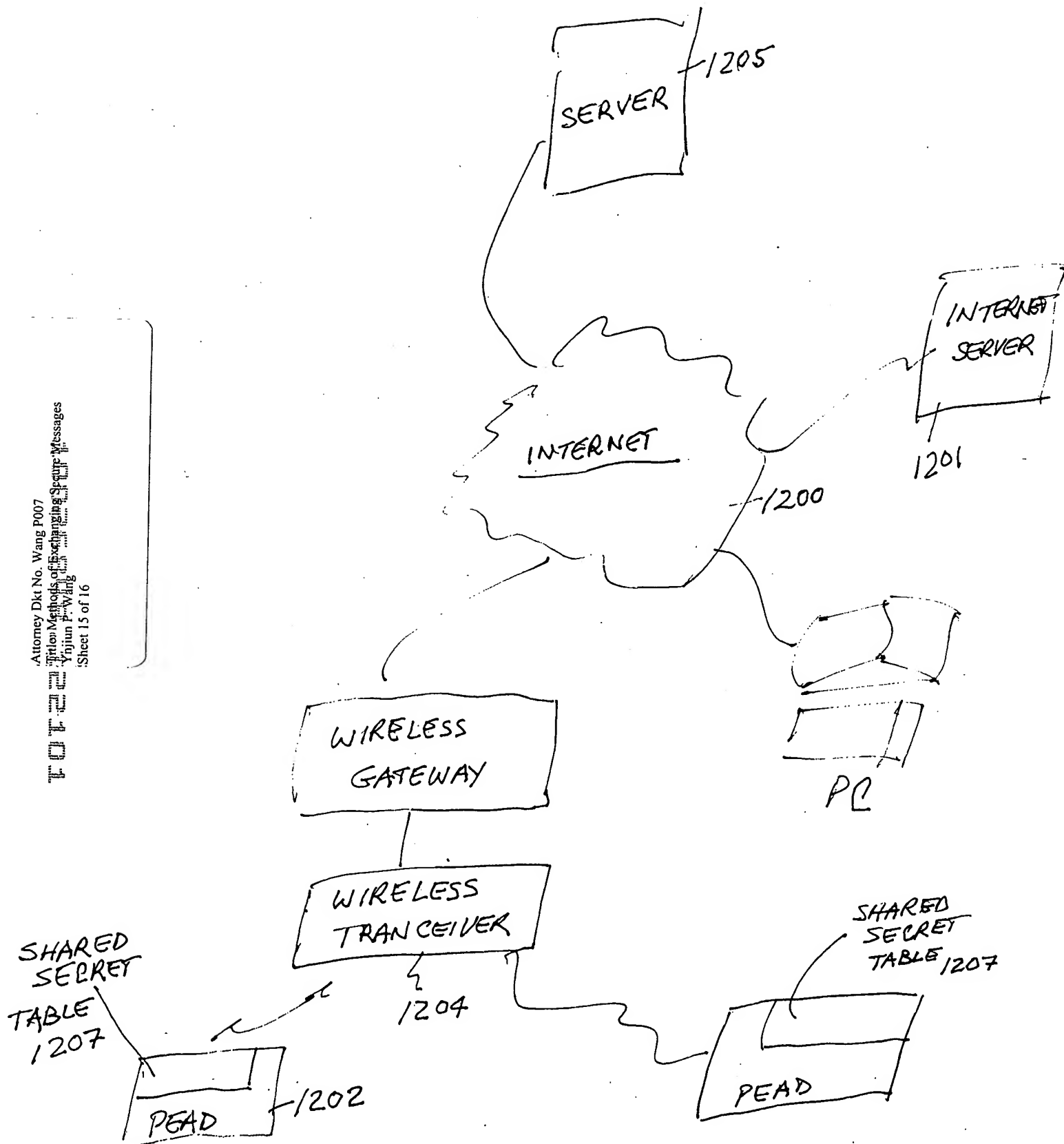


FIG 12A

Sender retrieves public key
information using receiver's i.d. - 1210

Sender derives shared secret
using receiver's public key - 1214

Sender encrypts message
with shared secret - 1216

Sender sends message
after appending receiver's i.d. - 1218

Receiver derives the
shared secret using sender's
user i.d. and sender's
public key - 1220

Store shared secret with
receiver's i.d. as an - 1222
index in receiver's PEAD

FIG 12B